

Student Name \_\_\_\_\_ Student Number \_\_\_\_\_

**CREDITS NOT APPLICABLE FOR GRADUATION**

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**TOTAL DEPARTMENTAL CREDIT REQUIREMENTS FOR GRADUATION: 124 CREDITS**

Communication (9 cr)	
ENGL 15 or ENGL 30 (3)	
ENGL 202A,202B,202C,202D(3)	
SPCOM 100 (3)	

Quantification (8 cr)	
& MATH 140 (4)	
MATH 141 (4)	

General Chemistry (8 cr)	
& CHEM 12 (3)	
& CHEM 13 (3)	
CHEM 14 (1)	
CHEM 15 (1)	

Biology Core Courses (16cr)	
& BIOL 110 (4)	
& BIOL 220W (4)*	
& BIOL 230W (4)*	
& BIOL 240W (4)*	
*These courses = 1 "W" Credit	

Arts (6 cr)	
GA (3)	
GA (3)	

Humanities (6 cr)	
GH (3)	
GH (3)	

Social & Behavioral Sciences (6 cr)	
GS (3)	
GS (3)	

Physics (8 - 12 cr)	
PHYS 215 (4)	
PHYS 265 (4)	
or	
PHYS 211 (4)	
PHYS 212 (4)	
PHYS 213 (2)	
PHYS 214 (2)	

Organic Chemistry (6 - 8 cr)	
CHEM 034 (3)	
CHEM 035 (3) SP only	
or	
CHEM 036 (2)	
CHEM 038 (3)	
CHEM 039 (3)	

Statistics (6 cr)	
STAT 200 (4), 240 (3), or 250 (3)	
STAT 462 (3) or STAT 464 (3)	

Health Sciences and Physical Activity (3 cr) Courses with GHS, GPE or GHA label can fulfill this category	
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! — **INTERCULTURAL & INTERNATIONAL COMPETENCE(3)**  
 (Any course with a DF or GI label can fulfill this requirement)

! — **FIRST-YEAR SEMINAR**

400-Level Biology Courses (20 - 22 cr)	
BIOL 427 (3) - FA	
BIOL 435 (3) - FA or BIOL 482 (4)**- Intersession	
BIOL 446 (3)- SP Even	
BIOL 450W (5)- FA	
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\*\*Offered at Wallops Island in May.

\*Select 6-7 credits from the following list:

- |                    |                    |
|--------------------|--------------------|
| BIOL 406 - SP      | BIOL 464 - SP      |
| BIOL 414 - SP      | BIOL 499A -        |
| BIOL 415 - SP      | Christmas Break    |
| BIOL 417 - FA      | HORT 440W          |
| BIOL 428 - SP      | PPATH 416          |
| BIOL 448 - SP Even | SC 295~ - FA/SP/SU |
| BIOL 459 - SP      | SC 395~ - FA/SP/SU |
|                    | SC 495~ - FA/SP/SU |

~A maximum of 3 credits may be petitioned if the Co-op work was completed off-campus in the life sciences and if proper documentation is provided.

Supporting Courses & Related Areas Electives (14 - 22 cr) to complete 124 credits	
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- Recommended elective courses:
- |          |           |           |
|----------|-----------|-----------|
| ANTH 405 | ENT 300   | MICRB 202 |
| ERM 411  | GEOSC 426 | WFS 408   |
| ERM 412  | MICRB 201 | WFS 452   |
| ERM 413W |           |           |

1. **Disallowed credits:** The following courses **MAY NOT** be used for credit (**NOT EVEN AS ELECTIVES**) towards a degree in Biology and will **NOT** be counted towards graduation:

BMB 1	MICRB – no course under 199
BI SC 1, 2, 3, 4	PH SC 1, 150, 151
BIOL 11, 12	PHYS 001
CHEM 101, 103, 106, 108	LL ED 5, 10
ENGL 4, 5	More than 6 credits of SC 295, 395, 495
ESL 4, 5	STAT 100
MATH – no course under 140**	Course Duplications
CAS 126	

**\*\*Please note that in the following courses only a specified number of the credits count towards graduation:**

MATH 140A (only 4 out of 6 credits count)  
CHEM 106 (only 3 out of the 5 credits count)

**However, all credits earned at Penn State count in determining your grade point average (GPA).**

**Note also that ESACT 129 cannot be scheduled if you have already received credit for ESACT 117 or 220.**

**Moreover, students may take only one course for General Education credit from:** HD FS 129 (GS) or SOC 030 (GS); PHIL 001 (GH) or PHIL 004 (GH); LARCH 003 (GA) or LARCH 060 (GA); SOC 001 (GS) or R SOC 011 (GS).

Any exceptions need to be petitioned in 329 Whitmore and will be evaluated by Dr. Richard Cyr on a case-by-case basis.

2. **Writing Across the Curriculum requirement** (3 credits of “W” are required). For majors in Biology, this requirement can be met by taking BIOL 220W, 230W and 240W, each carrying one credit of “W”. One other course currently offered in the Department of Biology with “W” credit is BIOL 450W. Note that other courses within the Eberly College of Science can be used to fulfill this requirement.

3. **Elective (Supporting) Courses:** Elective credit totals vary with the option. Total elective credits range between 12 to 30 credits, depending on option and course selection. Choose your electives carefully.

4. **Petition for course substitutions or waivers of requirements.** Forms are available in the Biology Undergraduate Advising Office (329 Whitmore) and on-line (<http://www.bio.psu.edu/Degrees/UgradAO> - click on the “Forms and Procedures” link).

5. **A minimum of 124 credits is required to graduate with a major in Biology.** Add up your credits **carefully** and **always** check your total credit early in the semester you plan to graduate!

6. **Check the bulletin board in 329 Whitmore for new course offerings** in the Department of Biology.

7. **Select both United States Cultures and International Culture course carefully.** You may be able to select a course which will also satisfy the general education requirements in Arts, Humanities or Social and Behavioral Sciences. For example, SOC 119 – Race and Ethnic Relations – will satisfy both GS and US requirements but will only count as 3 or 4 credits towards the 124 credits required for graduation (Soc 119 is a variable credit course).